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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/987,887	11/16/2001	Ryuta Tanaka	1075.1181	7579
21171 75	90 08/23/2006		EXAMINER	
STAAS & HALSEY LLP			TRUONG, CAMQUY	
SUITE 700 1201 NEW YO	RK AVENUE, N.W.		ART UNIT	PAPER NUMBER
WASHINGTO			2195	
			DATE MAILED: 08/23/200	6

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No.	Applicant(s)					
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09/987,887	TANAKA ET AL.					
Examiner	Art Unit					
Camquy Truong	2195					
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lune 2006						
 ☐ This action is FINAL. ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is 						
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4) Claim(s) 1.3.5.7.9.11.13.15.17.19.21.23.25.27.29.31.33.35 and 37-46 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
i)⊠ Claim(s) <u>1,3,5,7,9,11,15,17 ,21,23,27,29,33,35 and 37-46</u> is/are rejected. ')⊠ Claim(s) <u>13,19,25 and 31</u> is/are objected to.						
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'Application/Control Number: 09/987,887 Page 2

Art Unit: 2195

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DETAILED ACTION

1. Claims 1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, 31, 33, 35, 37-46 are presented for examination.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter, which the applicant regards as his invention.

- 2. Claims 1, 3, 5, 7, 9, 11, 15, 17, 19, 21, 23, 27, 29, 31, 33, 35 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
 - A. The following terms lack proper antecedent basis:
 - i. said last-named one processor claim 3.
 - Ii the last-name one processor claim 7.
 - B. The claim language in the following claims is not clearly understood:
 - i. As to claim 3, it is not clearly indicated whether "said last-named one processor element" refers to "one processor element".

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Art Unit: 2195

- 4. Claims 1, 3, 5, 7, 9, 11, 37-46 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yamashita (U.S. Patent 7,024,671 B2) in view of Song et al. (U.S. Patent 6,061,711).
- 5. As to claim 1, Yamashita teaches the invention substantially as claimed including:

two or more processor elements whose performances are to be executed by a common program (the job migration process indicates a process for moving a job being executed by one Processor Element to different Processor Element, col. 2, lines 57-59);

a storing section, responsive to each switching of said processor elements by said control section, for storing handover information relating to the common program which information is to be handed over from said one processor element to said another processor element (col. 4, lines 42-46; col. 5, lines 7-15; col. 7, lines 30-32; col. 8, lines 40-45; col. 14, lines 15-18);

a store control section for storing said handover information from said one processor elements into said storing section when said switching request signal detecting section detects the switching request signal (col. 4, lines 42-46; col. 5, lines 7-15; col. 7, lines 30-32; col. 8, lines 38-45);

a stop control section for stopping the performance of said one processor element after said store control sections stores said handover information into said storing section (col. 8, lines 12-45; col. 12, lines 52-58); and

Application/Control Number: 09/987,887 Page 4

Art Unit: 2195

a start control section for starting the performance of said another processor element using said handover information stores in said storing section (col. 5, lines 9-15; col. 8, lines 24-29 and lines 41-45).

- 6. Yamashita does not explicitly teach that a switching signal detecting section for detecting a switching signal to request switching such plural processor elements one from another. However, Song teaches a switching signal detecting section for detecting a switching signal to request switching such plural processor elements one from another (col. 2, lines 52-60).
- 7. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teaching of Yamashita and Song because Song's switching signal detecting section for <u>detecting a switching signal to request</u> switching such plural processor elements one from another would improve the use efficiency of computer resource.
- 8. As to claim 3, Song teaches if a performance requested to be executed for one of said plural processor elements is to be made by another processor element, said last-named one processor element outputs said switching request signal to (col. 15, lines 43-44).

Application/Control Number: 09/987,887 Page 5

Art Unit: 2195

9. As to claim 5, Song teaches switching request signal is a switching control interruption signal (col. 6, lines 24-35).

- 10. As to claims 7, 9 and 11, Song teaches upon receipt of a signal from outside said system, said control section outputs an interruption signal to the last-one named another processor element to stop the performance thereof (col. 6, lines 24-35).
- 11. As to claims 37-38 and 40-41, Song teaches at least one of plural processor elements is an MPU and the remainder is a DSP, or vice versa (Fig. 2).
- 12. As to claim 39, it is rejected for the same reason as claims 7, 9, and 11.
- 13. As to claim 42, Song teaches invalidating section for invalidating the switching function of said control section to thereby actuate at least two or more of said plural processor elements simultaneously (col.11, lines 6-14).
- 14. As to claim 43, Song teaches handover information to be stored in said storing section includes at least one selected from the group consisting of a value of a program counter, an argument of a function, a return value of a function, and content of a stack pointer (col. 16, line 60 col. 17, line 8).
- 15. As to claims 44-46, they are rejected for the same reason as claim 1.

Application/Control Number: 09/987,887 Page 6

Art Unit: 2195

Allowable Subject Matter

16. Claims 13, 19, 25, 31 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

17. Claims 15, 9, 21, 23, 27, 29, 33, 35, would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

Conclusion

18. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Camquy Truong whose telephone number is (571) 272-3773. The examiner can normally be reached on 8AM – 5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng-Ai An can be reached on 571-272-3756. The fax phone number for the organization where this application or proceeding is assigned is 571-273-3756.

Information regarding the status of an application may be obtained from the Patent

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Application/Control Number: 09/987,887

Art Unit: 2195

Page 7

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(EBC) at 866-217-9197(toll-free).

Camquy Truong

August 10, 2006

SUPERVISCAY PATENT EXAMINER

ACCOUNTS OF SEPTEMBER STOP